

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033585.D
 Acq On : 11 Apr 2019 4:54
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:02:31 PM

Quant Time: Apr 11 10:06:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	815882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1987077	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2122617m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1655527	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	946062	7.951	ppbv 98
3) Chlorodifluoromethane	3.01	51	796131	8.476	ppbv 100
4) Chloromethane	3.17	50	424271	8.536	ppbv 97
5) Vinyl Chloride	3.29	62	422301	8.647	ppbv 99
6) Bromomethane	3.51	94	275794	8.788	ppbv 94
7) Chloroethane	3.60	64	159992	8.803	ppbv 94
8) Dichlorotetrafluoroethane	3.22	85	1100196	8.677	ppbv 100
9) Propene	3.04	41	330243	8.372	ppbv 97
10) Heptane	8.25	43	914364	8.672	ppbv 99
11) Trichlorofluoromethane	4.00	101	1294705	8.828	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	863238	8.764	ppbv 99
13) Ethanol	3.65	45	97225	9.525	ppbv 67
14) Bromoethene	3.79	108	344097	8.759	ppbv 99
15) Acetone	3.90	43	797782	8.132	ppbv 100
16) 1,3-Butadiene	3.36	39	358497	9.213	ppbv 90
17) tert-Butyl alcohol	4.36	59	156173	8.658	ppbv 100
18) 1,1-Dichloroethene	4.35	96	383069	9.054	ppbv 99
19) Isopropyl Alcohol	4.02	45	572082	9.220	ppbv # 97
20) Methylene Chloride	4.41	84	324421	7.791	ppbv 95
21) Allyl Chloride	4.48	41	558432	9.005	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	385574	8.735	ppbv 96
23) Vinyl Acetate	5.16	43	1204424	8.626	ppbv 99
24) 1,1-Dichloroethane	5.09	63	864759	8.153	ppbv 99
25) Ethyl Acetate	5.77	43	1511338	8.303	ppbv 99
26) Hexane	5.78	57	672992	8.316	ppbv 98
27) Carbon Disulfide	4.62	76	935043	9.716	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	953542	8.180	ppbv 100
29) Chloroform	5.85	83	1172847	8.454	ppbv 97
30) Cyclohexane	7.25	84	581641	9.085	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	695970	8.650	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	1145028	8.668	ppbv 99
34) 2-Butanone	5.33	43	964394	8.078	ppbv 99
35) Carbon Tetrachloride	7.14	117	1281323	9.104	ppbv 100
36) Benzene	7.01	78	1403023	8.415	ppbv 98
37) 1,2-Dichloroethane	6.41	62	891022	7.973	ppbv 99
38) Trichloroethene	7.96	130	587056	9.356	ppbv 98
39) 1,2-Dichloropropane	7.74	63	526453	8.060	ppbv 96
40) 1,4-Dioxane	7.96	88	187005	8.028	ppbv 84
41) Tetrahydrofuran	6.15	42	551016	8.391	ppbv 98
42) Bromodichloromethane	7.92	83	1312174	8.621	ppbv 99
43) Methyl Methacrylate	8.14	69	590395	8.721	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2446255	8.396	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	811063	9.758	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	908529	9.360	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	622689	8.396	ppbv	98
48) Dibromochloromethane	10.45	129	1144083	9.146	ppbv	99
49) Bromoform	13.20	173	1058554	8.858	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1519894	8.694	ppbv	100
51) 2-Hexanone	10.27	43	1176775	9.024	ppbv #	98
52) Tetrachloroethene	11.37	164	565365	8.987	ppbv	97
53) Toluene	9.95	91	1711809	8.835	ppbv	100
54) 1,2-Dibromoethane	10.76	107	992808	8.558	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.28	131	802432	8.248	ppbv #	56
57) Chlorobenzene	12.30	112	1347731	8.177	ppbv	95
58) Ethyl Benzene	12.86	91	2478846	8.745	ppbv	100
59) m/p-Xylene	13.15	91	4260154m	16.826	ppbv	
60) o-Xylene	13.85	91	2103811	8.593	ppbv	100
61) Styrene	13.69	104	1534951	9.135	ppbv	100
62) Isopropylbenzene	14.83	105	2966057	8.555	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1470260	8.156	ppbv	99
64) n-propylbenzene	15.72	120	765418	8.700	ppbv	99
65) tert-Butylbenzene	16.91	119	2715037	8.887	ppbv	99
66) Benzyl Chloride	17.16	91	1510418	10.632	ppbv	99
67) sec-Butylbenzene	17.46	105	3842730	8.844	ppbv	100
69) p-Isopropyltoluene	17.82	119	3203540	9.056	ppbv	99
70) n-Butylbenzene	18.71	91	3348180	8.933	ppbv	100
71) 2-Chlorotoluene	15.62	91	2277285	8.638	ppbv	99
72) 4-Ethyltoluene	16.00	105	2454646	8.919	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2390844	9.078	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2497367	8.847	ppbv	100
75) 1,3-Dichlorobenzene	17.17	146	1479870	8.482	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1482634	8.722	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1448468	8.750	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1091770	9.963	ppbv	99
79) Naphthalene	22.41	128	2467196	10.210	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1121888	13.834	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1283976	9.579	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

